



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2010/2011

INSTITUTE OF OPEN, DISTANCE AND E-LEARNING

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF EDUCATION (SCIENCE) AND BACHELOR OF SCIENCE

SBT 101: SURVEY OF THE PLANT KINGDOM

DATE: Monday 4th July, 2011

TIME: 11.00 a.m. – 1.00 p.m.

INSTRUCTIONS

Answer ALL questions in Section A and ANY ONE question from Section B. Section A should be answered in the spaces provided on the question paper only.

SECTION A – SHORT ANSWER QUESTIONS (5 marks each)

1. State the different groups of Gymnosperms based on their external morphology.
2. Using drawings, illustrate the various parts of the Bryophyte capsule internal anatomy of the class Musci.

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5. What are the beneficial effects of Fungi in sanitation?
6. State the habitats of the following algae:
- (a) *Spirogyra*,
 - (b) *Nostoc*,
 - (c) *Anabaena azollae*
 - (d) *Desmococcus*,
 - (e) *Laminaria*
7. Briefly explain the economic importance of lichens in foods and medicines.

8. Briefly explain the mode of feeding in autotrophic bacteria.

SECTION B - (30 MARKS)

1. Discuss the beneficial and non-beneficial aspects of fungi.
2. Discuss the many uses of bacteria in agriculture and industry.
3. Ferns have a complex life-cycle. Discuss using *Pteris* as an example.

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